

Application No. 09/350,466

Filed: July 9, 1999

Group Art Unit: 1743

In the Claims

Please rewrite the indicated claims to read as follows:

21. A broad screen analytical detection element, capable of detection of several classes of gas or liquid analytes, said detection element comprising

a first region comprising a solid and adsorbed on said solid a radiant energy-detectable material or a material capable of producing a radiant energy-detectable material, wherein said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material is desorbable by a target analyte; and

a second region for sequestering radiant energy-detectable material

(a) desorbed from or

(b) produced by material desorbed from

said solid prior to detection of said radiant energy-detectable material,

wherein either said first region or said second region further comprises a high boiling plasticizer/solvent.

27. A broad screen analytical detection element, capable of detection of several classes of gas or liquid analytes, said detection element comprising

a first region comprising a solid and adsorbed on said solid a radiant energy-detectable material or a material capable of producing a radiant energy-detectable material, wherein said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material is desorbable by a target analyte; and

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C2 a second region for sequestering radiant energy-detectable material desorbed from or produced by material desorbed from said solid prior to detection of said radiant energy-detectable material,

wherein said detection element is in the form of multiple small pieces.

31. The analytical detection element of claim 32, wherein said detection element contains one or more additional layers.

32. The analytical detection element of claim 43, wherein said second region is between said first region and said transparent base layer in said detection element.

38. A broad screen method for detection of one or more analytes or classes of analytes, said method comprising the steps of:

providing an analytical detection element, said detection element comprising a solid and adsorbed on said solid a radiant energy-detectable material or a material capable of producing a radiant energy-detectable material, wherein said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material is desorbable by a target analyte;

exposing said analytical detection element to a population of molecules possibly containing said target analytes for a period of time sufficient to permit desorption by said target analytes of said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material from said solid, wherein said radiant energy-detectable material or said material

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capable of producing a radiant energy-detectable material desorbed by said target analyte is made mobile by the presence of a high boiling plasticizer/solvent;

determining the amount of said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material desorbed from said solid; and

CH correlating the amount of said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material desorbed from said solid with the amount of target analyte present in said population of molecules.

correlating the amount of said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material desorbed from said molecularly permeable solid with the amount of target analyte present in said population of molecules.

44. A broad screen analytical detection element, capable of detection of several classes of gas or liquid analytes, said detection element comprising a first region comprising

- CG (a) a solid and adsorbed on said solid a radiant energy-detectable material or a material capable of producing a radiant energy-detectable material, wherein said radiant energy-detectable material or said material capable of producing a radiant energy-detectable material is desorbable by a target analyte, and
- (b) a high boiling plasticizer/solvent.

Please cancel claims ~~35~~ and 36.